

Clinical Policy: Dexrazoxane (Zinecard, Totect)

Reference Number: CP.PHAR.418

Effective Date: 03.19.19

Last Review Date: 05.20

Line of Business: Commercial, HIM, Medicaid

[Coding Implications](#)[Revision Log](#)

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

Description

Dexrazoxane (Zinecard[®], Totect[®]) is a cytoprotective agent.

FDA Approved Indications

Totect and Zinecard are indicated for reducing the incidence and severity of cardiomyopathy associated with doxorubicin in women with metastatic breast cancer who have received a cumulative doxorubicin dose of 300 mg/m² and will continue receiving doxorubicin to maintain tumor control.

Totect is indicated for the treatment of extravasation resulting from intravenous anthracycline chemotherapy.

Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of health plans affiliated with Centene Corporation[®] that Zinecard and Totect are **medically necessary** when the following criteria are met:

I. Initial Approval Criteria**A. Doxorubicin-Induced Cardiomyopathy (must meet all):**

1. Prescribed to reduce the incidence or severity of cardiomyopathy associated with doxorubicin;
2. Prescribed by or in consultation with an oncologist or hematologist;
3. Age \geq 18 years;
4. Will be used concurrently with doxorubicin;
5. Member has received a cumulative doxorubicin dose of \geq 300 mg/m²;
6. Request meets one of the following (a or b):*
 - a. Dose does not exceed 10 times the dose of doxorubicin (e.g., dexrazoxane 500 mg/m² for member receiving doxorubicin 50 mg/m²) given with each doxorubicin dose;
 - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

**Prescribed regimen must be FDA-approved or recommended by NCCN*

Approval duration: 12 months or duration of doxorubicin therapy, whichever is less

B. Anthracycline-Induced Extravasation (must meet all):

1. Diagnosis of anthracycline-induced extravasation;
2. Prescribed by or in consultation with an oncologist;
3. Age \geq 18 years;
4. Dose does not exceed 2,000 mg per day on days 1 and 2, and 1,000 mg on day 3.

Approval duration: 3 days

C. Other diagnoses/indications

1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.CPA.09 for commercial, HIM.PHAR.21 for health insurance marketplace, and CP.PMN.53 for Medicaid.

II. Continued Therapy

A. Doxorubicin-Induced Cardiomyopathy (must meet all):

1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Member continues to receive doxorubicin;
3. Member is responding positively to therapy;
4. Request meets one of the following (a or b):*
 - a. Dose does not exceed 10 times the dose of doxorubicin (e.g., dexrazoxane 500 mg/m² for member receiving doxorubicin 50 mg/m²) given with each doxorubicin dose;
 - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

**Prescribed regimen must be FDA-approved or recommended by NCCN*

Approval duration: 12 months or duration of doxorubicin therapy, whichever is less

B. Anthracycline-Induced Extravasation

1. Re-authorization is not permitted. Member must meet the initial approval criteria.

Approval duration: Not applicable

C. Other diagnoses/indications (must meet 1 or 2):

1. Currently receiving medication via Centene benefit and documentation supports positive response to therapy.

Approval duration: Duration of request or 6 months (whichever is less); or

2. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.CPA.09 for commercial, HIM.PHAR.21 for health insurance marketplace, and CP.PMN.53 for Medicaid.

III. Diagnoses/Indications for which coverage is NOT authorized:

- A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – CPA.09 for commercial, HIM.PHAR.21 for health insurance marketplace, and CP.PMN.53 for Medicaid or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

FDA: Food and Drug Administration

Appendix B: Therapeutic Alternatives

Not applicable

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s):
 - Zinecard: should not be used with non-anthracycline chemotherapy regimens
 - Totect: none reported
- Boxed warning(s): none reported

Appendix D: General Information

- The 2008 American Society of Clinical Oncology (ASCO) clinical practice guidelines for the use of chemotherapy and radiotherapy protectants do not make a recommendation regarding pediatric use of dexrazoxane due to insufficient evidence.
 - Due to variances in the type of pediatric malignancy studied, trial design used, and outcomes assessed, there is not a consistent approach in the clinical literature in terms of what the appropriate cumulative doxorubicin dose threshold at which to initiate dexrazoxane therapy should be, as well what the appropriate dosing of dexrazoxane is in pediatrics.
 - In an open-label, prospective, randomized, placebo-controlled trial (N = 38) by Wexler LH, et al., patients (age ≤ 25 years) with sarcoma who received dexrazoxane had a significantly smaller decline in left ventricular ejection fraction (LVEF) per 100 mg/m² of doxorubicin dose from baseline compared to placebo (1% v. 2.7%, p < 0.01). Patients received a dexrazoxane dose of 20 times the dose of doxorubicin. The median doxorubicin dose received by dexrazoxane patients was 410 mg/m² compared to 310 mg/m² in the placebo group.
 - In Choi HS, et al. (N = 89), patients with various solid tumors (predominantly neuroblastomas, peripheral primitive neuroectodermal tumors) were randomized to receive dexrazoxane administered in a 10:1 ratio to doxorubicin or placebo. Dexrazoxane-treated patients were statistically less likely to experience a cardiac event (defined as either increase left ventricular (LV) diastolic diameter for age, increased LV systolic diameter, or fractional shortening less than 28% at any time point of doxorubicin treatment) compared to placebo-treated patients (27.7% v. 52.4%, p = 0.017). The incidence of congestive heart failure (CHF) was also lower for those who received dexrazoxane (6.4% v. 14.3%, p = 0.049). The 5-year cardiac event free survival rates were significantly improved in the dexrazoxane group (69.2% v. 45.8%, p = 0.04). The median cumulative doses of doxorubicin was 290 mg/m² in the dexrazoxane group compared to 294 mg/m² which were not significantly different (p = 0.387).
 - Per Asselin BL, et al. dexrazoxane does not appear to compromise antitumor efficacy and did not increase frequency of toxicity or secondary malignancies.

V. Dosage and Administration

Drug Name	Indication	Dosing Regimen	Maximum Dose
dexrazoxane (Zinecard)	Doxorubicin-induced cardiomyopathy	Give Zinecard at a ratio of 10:1 with the doxorubicin dose as an IV infusion over 15 minutes and within 30 minutes before doxorubicin is given.	Not applicable
dexrazoxane (Totect)	Anthracycline-induced extravasation	Day 1: 1,000 mg/m ² Day 2: 1,000 mg/m ² Day 3: 500 mg/m ² Give Totect as an IV infusion over 1-2 hours and within 6 hours of extravasation. Treatment on days 2 and 3 should start at the same hour (+/- 3 hours) as day 1.	Day 1: 2,000 mg Day 2: 2,000 mg Day 3: 1,000 mg

VI. Product Availability

Drug Name	Availability
dexrazoxane (Zinecard)	Single-dose vial, IV powder for solution: 250 mg, 500 mg
dexrazoxane (Totect)	Single-dose vial, IV powder for solution: 500 mg

VII. References

1. Zinecard Prescribing Information. New York, NY: Pharmacia & Upjohn Co; October 2016. Available at: <http://labeling.pfizer.com/ShowLabeling.aspx?format=PDF&id=514> . Accessed February 16, 2020.
2. Totect Prescribing Information. Nashville, TN: Cumberland Pharmaceuticals Inc; November 2020. Available at: <https://dailymed.nlm.nih.gov/dailymed/drugInfo.cfm?setid=b098c7f5-07a9-49a3-8e8a-f8adda671eca&audience=consumer>. Accessed November 16, 2020.
3. American Society of Clinical Oncology Clinical Practice Guidelines for the Use of Chemotherapy and Radiotherapy Protectants. Available at: <http://ascopubs.org/doi/full/10.1200/JCO.1999.17.10.3333>. J Clin Oncol; 10:3333-3355 Accessed February 16, 2020.
4. American Society of Clinical Oncology 2002 Clinical Practice Guideline Update: Use of Chemotherapy and Radiation Therapy Protectants. Available at: <http://ascopubs.org/doi/pdf/10.1200/JCO.2002.04.178>. J Clin Oncol; 20:2895-2903. Accessed February 16, 2020.
5. American Society of Clinical Oncology 2008 Clinical Practice Guideline Update: Use of Chemotherapy and Radiation Therapy Protectants. Available at: <http://ascopubs.org/doi/pdf/10.1200/JCO.2008.17.2627>. J Clin Oncol; 27:127-145. Accessed February 16, 2020.
6. Micromedex[®] Healthcare Series [Internet database]. Greenwood Village, Colo: Thomson Healthcare. Updated periodically. Accessed February 16, 2020.
7. Choi HS, Park ES, Kang HJ, et al. Dexrazoxane for preventing anthracycline cardiotoxicity in children with solid tumors. J Korean Med Sci. 2010;25(9):1336-42.

8. Asselin BL, Devidas M, Chen L, et al. Cardioprotection and Safety of Dexrazoxane in Patients Treated for Newly Diagnosed T-Cell Acute Lymphoblastic Leukemia or Advanced-Stage Lymphoblastic Non-Hodgkin Lymphoma: A Report of the Children's Oncology Group Randomized Trial Pediatric Oncology Group 9404. J Clin Oncol. 2016;34(8):854-62.

Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS Codes	Description
J1190	Injection, dexrazoxane, 250 mg

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created	03.19.19	05.19
2Q 2020 annual review: no significant changes; HIM-Medical Benefit revised to HIM line of business; references reviewed and updated.	02.15.20	05.20
RT4: updated policy in response to expansion of Totect FDA indication for doxorubicin toxicity, which overlaps with Zinecard.	11.16.20	

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. "Health Plan" means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan's affiliates, as applicable.

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Note:

For Medicaid members, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

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